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# User Manual

## IR IP CAMERA





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## WARNINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC & ELETRIC CONDUCTIVE OBJECT THROUGH VENTILATION GRILLS.

## CAUTION

	<b>CAUTION</b>  RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		

## COPYRIGHT

THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

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# I. Preface

This is a professional CMOS 2 Mega Pixel IP Camera. It has built-in web server which enables user to view real-time video via IE browser. It also supports simultaneously H.264/JPEG/ MPEG4 (3GPP Only) video compression with CMOS 2 M-Pixel Sensor which provides smooth and high video quality. The video can be stored in the SD card, and can be playback remotely.

IP Vandal Dome is an easy-to-use IP Camera which is designed for security application.

## II. Product Specifications

- IP 66
- External Varifocal Lens adjustment
- True Day/Night Function
- Mechanism IR Cut Filter available
- IR Distance 20M/30M/40M/50M/80M
- H.264/MPEG-4/ MJPEG Compression Format
- Support Cell Phone/ PDA/ 3GPP
- SD card backup
- 2-way audio
- 3 streaming
- SDK for software Integration
- Free Bundle 36 Channel Recording Software

### Specifications

Hardware	
CPU	ARM 9 ,32 bit RISC
RAM	256MB
ROM	16MB
Image sensor	1/3" CMOS
Sensitivity	0 Lux (IR On)
Lens Type	Vari-focal Auto IRIS 3.6~16mm
ICR	Mechanism IR Cut Filter
LED	IR Distance 20M

Power over Ethernet		Yes
Power Consumption		DC 12V, 470mA
Operating Temperature		-10℃ ~ 40 ℃
Dimensions		83mm (W) x 79.5mm (H) x 182.5mm (D)
Weight		700g
Network		
Ethernet		10/ 100 Base-T
Network Protocol		HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP
System		
Video Resolution		1600x1200, 1280x1024, 1280x960, 1280x720, 800x592, 640x480, 350x240, 160x120
Video adjust		Brightness, Contrast, Exposure, Sharpness
Dual Streaming		Yes
Image snapshot		Yes
Full screen monitoring		Yes
Compression format		H.264/ MPEG-4/ MJPEG
Video bitrate adjust		CBR, VBR
Motion Detection		Yes, 3 different areas
Triggered action		Mail, FTP
Pre/ Post alarm		Yes, configurable
Security		Password protection
Firmware upgrade		HTTP mode, can be upgraded remotely
Simultaneous connection		Up to 10
Web browsing requirement		
OS		Windows 7, Vista, XP Microsoft IE 6.0 or above
Hardware		
	Suggested	Intel-C 2.0G, RAM : 512MB, Graphic card : 64MB
	Minimum	Intel-C 1.6G, RAM : 256MB, Graphic card : 32MB

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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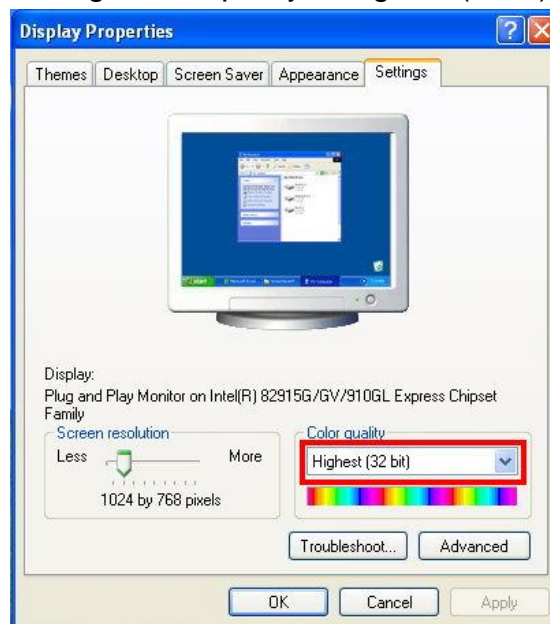
## III. Product Installation

### A. Monitor Setting

- i. Right-Click on the desktop. Select “ Properties”.

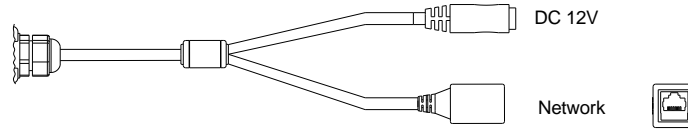


- ii. Change color quality to highest (32bit).

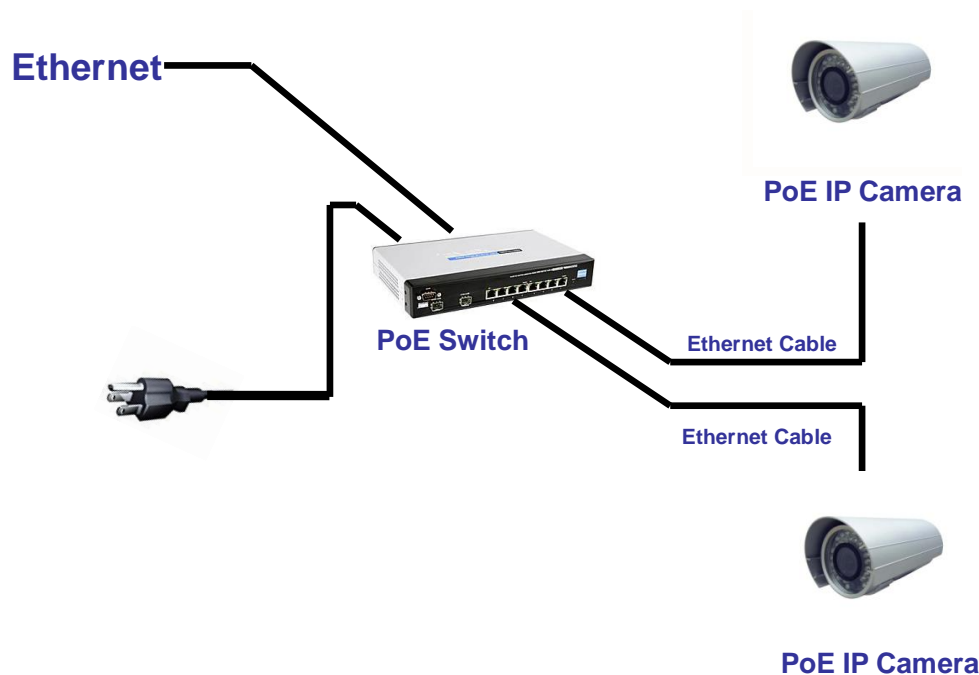


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## B. Hardware Installation



- i. Connect power adaptor
- ii. Connect Ethernet cable to IP Camera
- iii. Set up the network configurations according to the network environment. For further explanation, please refer to chapter VI, “Network Configuration for IP CAMERA”.
- iv. PoE (Power Over Ethernet) **802.3af, 15.4W PoE Switch is recommended**  
Power over Ethernet (PoE) is a technology that integrates power into a standard LAN infrastructure. It enables power to be provided to the network device, such as an IP phone or a network camera, using the same cable as that used for network connection. It eliminates the need for power outlets at the camera locations and enables easier application of uninterruptible power supplies (UPS) to ensure 24 hours a day, 7 days a week operation.



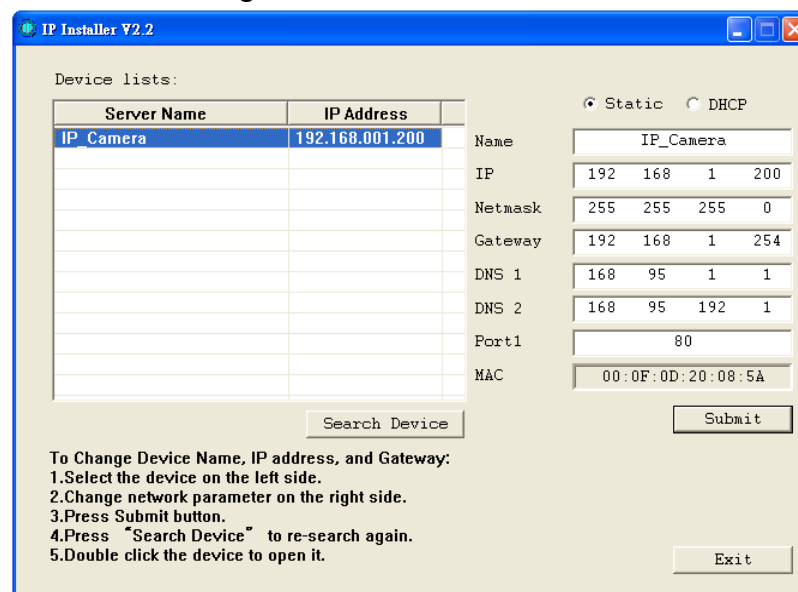
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## C. IP Assignment

- i. Use the software, "IP Installer" to assign the IP address of IP Camera. The software is in the attached software CD.
- ii. There are two languages for the IP installer
  - a. IPInstallerCht.exe : Chinese version
  - b. IPInstallerEng.exe : English version
- iii. There are 3 kinds of IP configuration.
  - a. Fixed IP (Public IP or Virtual IP)
  - b. DHCP (Dynamic IP)
  - c. Dial-up (PPPoE)
- iv. Please execute IP Installer
- v. For Windows XP SP2 user, the following message box may appear. Please click "Unblock".



- vi. IP Installer configuration:



- vii. IP Installer will search all IP Cameras connected on Lan. The user can



- 
- click "Search Device" to search again.
- viii. Click one of the IP Camera listed on the left side. The network configuration of this IP camera will show on the right side. You may change the "name" of the IP Camera to your preference (eg: Office, warehouse). Change the parameter and click "Submit". The following dialogue box will show. Just click "OK". It will apply the change and reboot the Device.



- ix. Please make sure the subnet of PC IP address and IP CAM IP address are the same.

**The same Subnet:**

IP CAM IP address: 192.168.1.200

PC IP address: 192.168.1.100

**Different Subnets:**

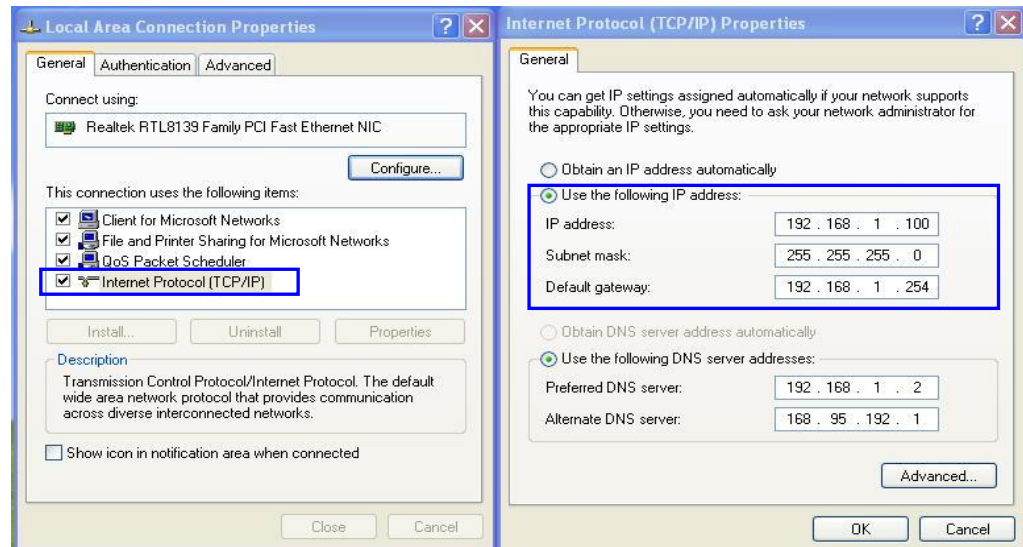
IP CAM IP address: 192.168.2.200

PC IP address: 192.168.1.100

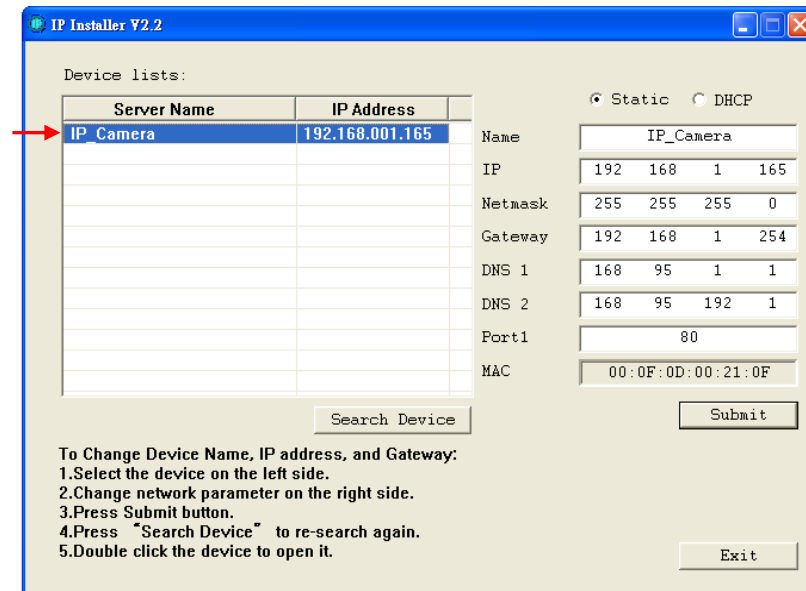
## To Change PC IP address:

Control Panel→Network Connections→Local Area Connection Properties→Internet Protocol (TCP/IP) →Properties

Please make sure your IP Camera and PC have the same Subnet. If not, please change IP Camera subnet or PC IP subnet accordingly.



- x. A quick way to access remote monitoring is to left-click the mouse twice on a selected IP Camera listed on “Device list” of IP Installer. An IE browser will be opened.



- 
- xi. Then, please key in the default “user name: admin” and “password: admin”.



## D. Install ActiveX control:

For the first time to view the camera video via IE, it will ask you to install the ActiveX component.

 This website wants to install the following add-on: 'WEBWATCH2.cab' from

If the installation failed, please check the security setting for the IE browser.

- i. IE → Tools → Internet Options... → Security Tab → Custom Level... → Security Settings → Download unsigned ActiveX controls → Select “Enable” or Prompt.
- 
- ii. IE → Tools → Internet Options... → Security Tab → Custom Level... → Initialize and script ActiveX controls not marked as safe → Select “Enable” or Prompt.

1



2



3

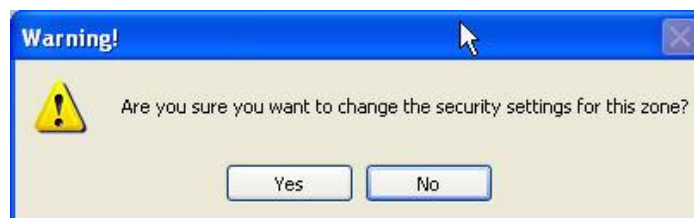


4



5

When popup the following dialogue box, click "Yes".



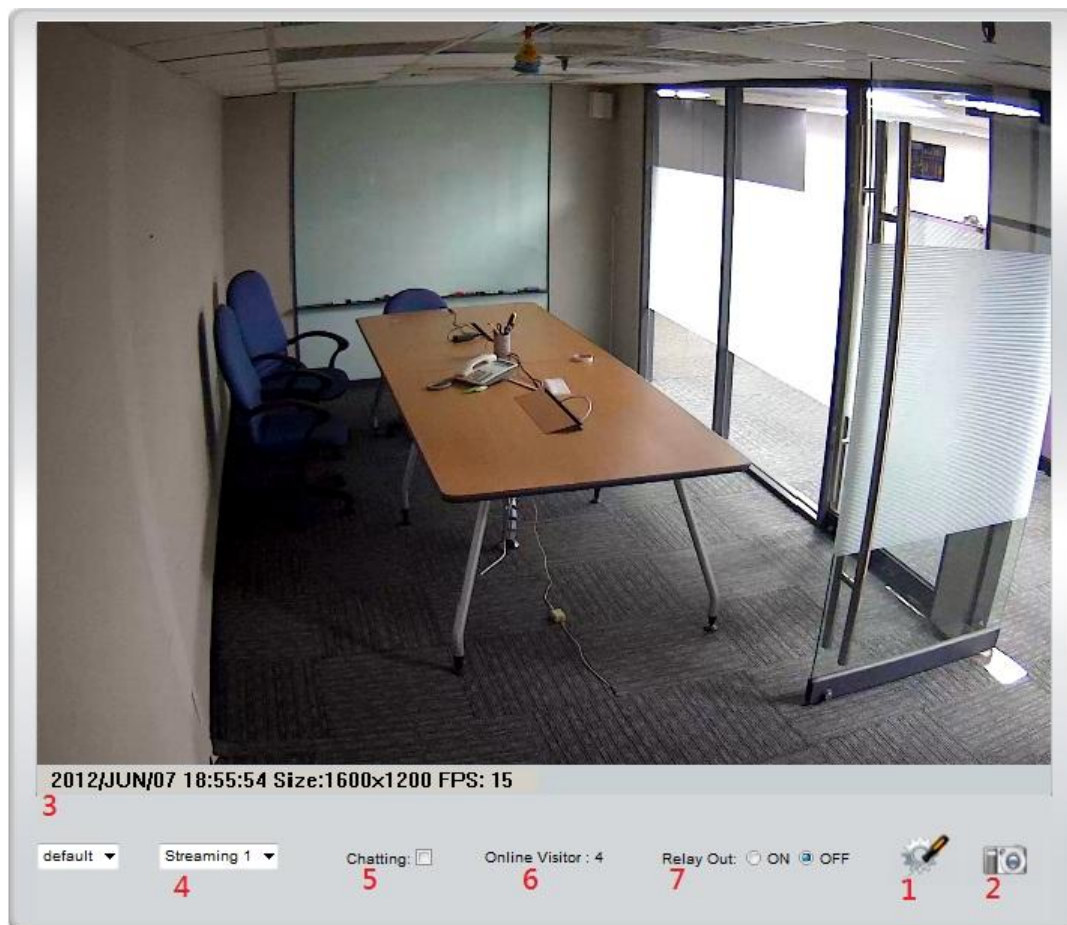
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## IV. Live Video

Start an IE browser, type the IP address of the IP Camera in the address field. It will show the following dialogue box. Key-in the user name and password. The default user name and password are “**admin**” and “**admin**”.



When connect to the IP Camera ,The following program interface shows.



- 
1.  : Get into the administration page

2.  : Video Snapshot

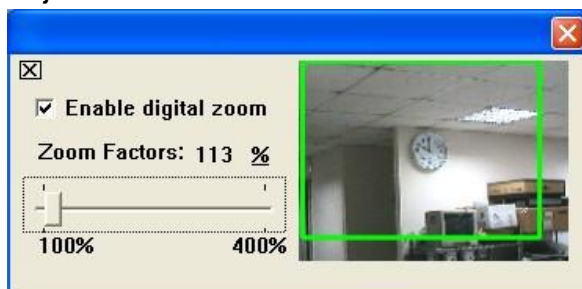
3. Show system time, video resolution, and video refreshing rate
4. Shows how many people connect to this IP camera

Double-click the video, it will change to full screen mode. Press “Esc” or double-click the video again, it will change back to normal mode.

Right-Click the mouse on the video, it will show a pop-up menu.




1. Snapshot : Save a jpg picture
2. Record Start : Record video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select “Record Stop”. The video format is AVI. Use Microsoft Media Player to play the recorded file.
3. Full Screen : Full-screen mode.
4. Zoom : Enable zoom-in and zoom-out functions. Select “Enable digital zoom” option first within the pop-up dialogue box and then drag and drop the bar to adjust the zoom factors.



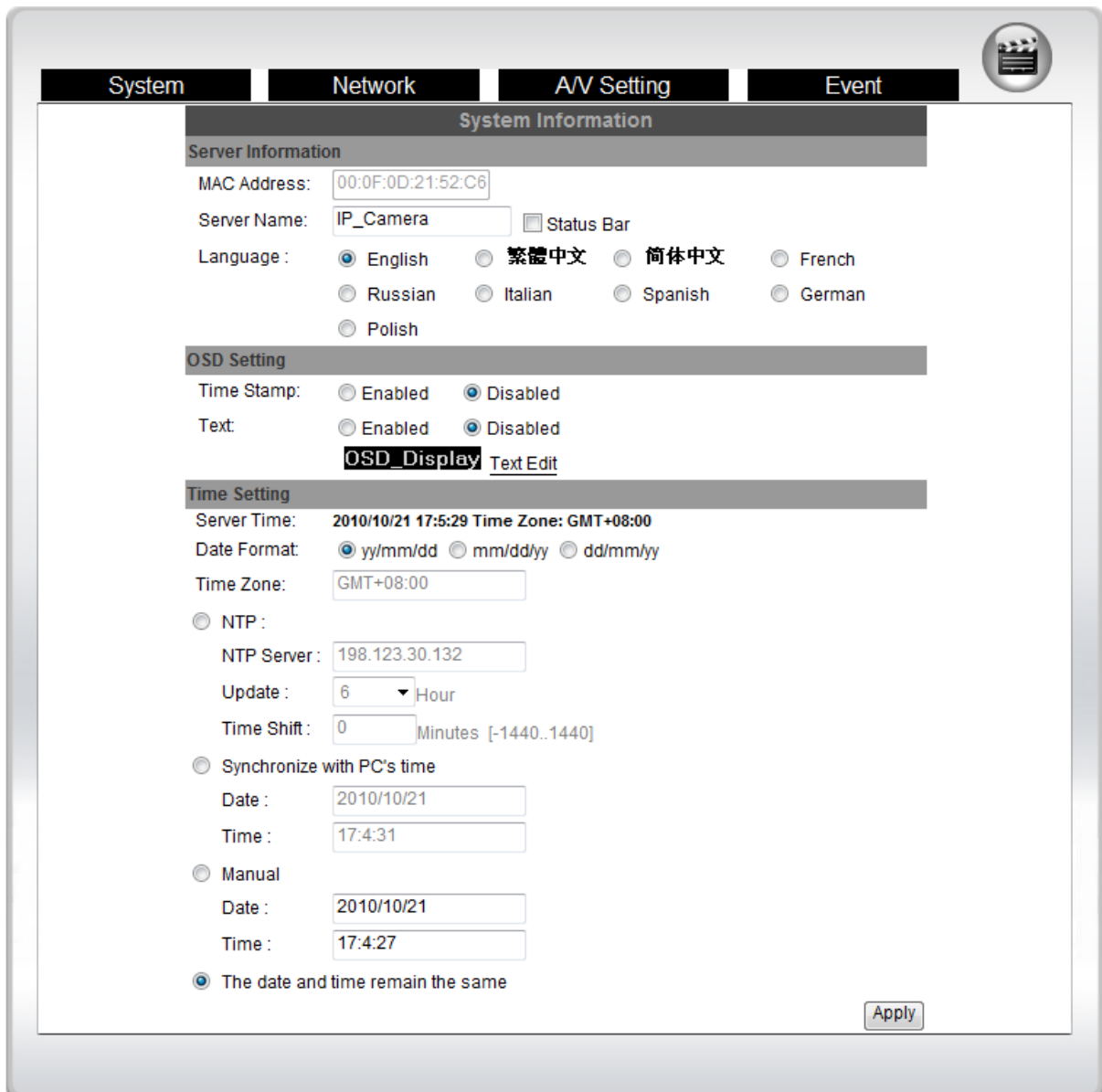
## V. IR IP CAMERA Configuration



Click  to get into the administration page. Click



to back to the live video page.



**System**   **Network**   **A/V Setting**   **Event**

**System Information**

**Server Information**

MAC Address: 00:0F:0D:21:52:C6

Server Name: IP\_Camera ☐ Status Bar

Language : ☒ English   ☐ 繁體中文   ☐ 简体中文   ☐ French  
☐ Russian   ☐ Italian   ☐ Spanish   ☐ German  
☐ Polish

**OSD Setting**

Time Stamp: ☐ Enabled   ☒ Disabled

Text: ☐ Enabled   ☒ Disabled

**OSD\_Display** [Text Edit](#)

**Time Setting**

Server Time: 2010/10/21 17:52:29 Time Zone: GMT+08:00

Date Format: ☒ yy/mm/dd   ☐ mm/dd/yy   ☐ dd/mm/yy

Time Zone: GMT+08:00

☐ NTP :

NTP Server: 198.123.30.132

Update : 6 Hour

Time Shift: 0 Minutes [-1440..1440]

☐ Synchronize with PC's time

Date : 2010/10/21

Time : 17:4:31

☐ Manual

Date : 2010/10/21

Time : 17:4:27

☒ The date and time remain the same

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# A. System

## i. System Information

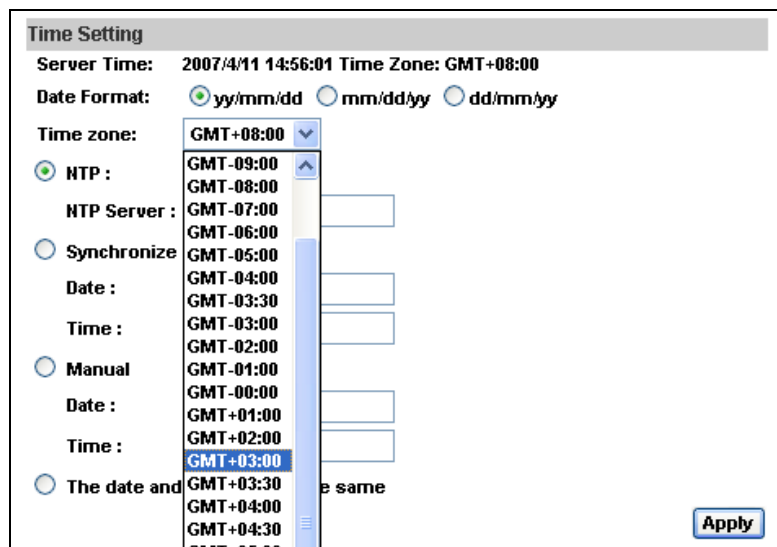
- a. Server Information : Set up the camera name, select language, and set up the camera time.
1. Server Name : This is the Camera name. This name will show on the IP Installer.
  2. Select language : There are English, Traditional Chinese, and Simple Chinese to select. When changed, it will show the following dialogue box for the confirmation of changing language.



- b. OSD Setting : select a position where date & time display on screen.



- c. Server time setting : Select options to set up time - "NTP", "Synchronize with PC's time", "Manual", "The date and time remain the same".

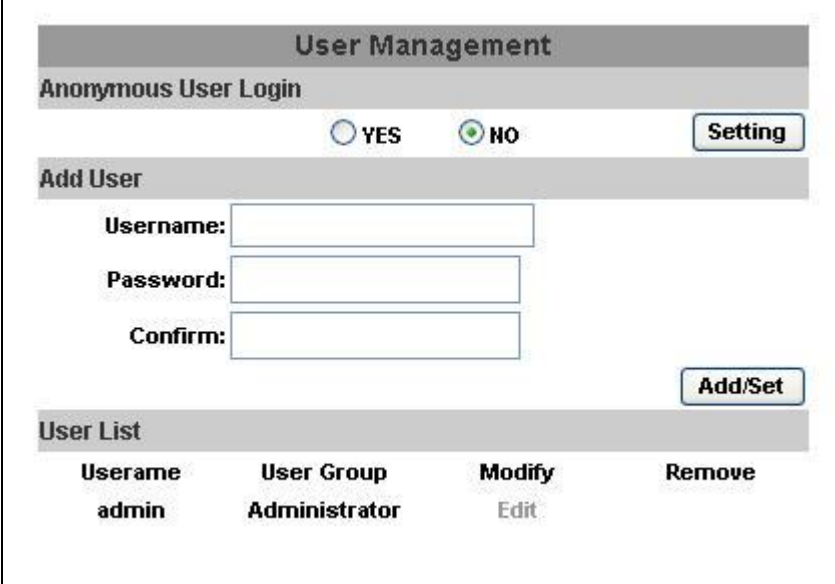




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## ii 、 User Management

IP Camera supports three different users, administrator, general user, and anonymous user.



The 'User Management' web interface is divided into three main sections. The top section, 'Anonymous User Login', features two radio buttons: 'YES' and 'NO', with 'NO' selected. A 'Setting' button is located to the right. The middle section, 'Add User', contains three input fields for 'Username:', 'Password:', and 'Confirm:', followed by an 'Add/Set' button. The bottom section, 'User List', displays a table with the following data:

Username	User Group	Modify	Remove
admin	Administrator	Edit	

- Anonymous User Login :  
Yes : Allow anonymous login  
No : Need user name & password to access this IP camera
- Add user :  
Type the user name and password, then click "Add/Set".
- Click "edit" or "delete" to modify the user.



The 'User Setup' dialog box, titled 'User\_Setting - Microsoft Internet Explorer', contains three input fields: 'Username:' with the value 'admin', 'Password:', and 'Confirm:'. An 'OK' button is positioned to the right of the 'Confirm' field.

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### iii 、 System update :

The screenshot shows a web interface titled "System Update". It contains several sections: "Firmware Upgrade" with fields for "Firmware Version" (V3.2.11) and "New Firmware" (with a "Browse..." button) and an "Upgrade" button; "Reboot System" with a "Start" button; "Factory Default" with a "Start" button; and "Setting Management" with a "Save As a File:" section containing a text box and a "Browse..." button, and a "New Setting File:" section with a text box and a "Browse..." button. There is also an "Upgrade" button at the bottom of the "Setting Management" section. A note in the "Setting Management" section reads: "Right click the mouse button on Setting Download and then select Save As... to save current system's setting in the PC."

- a. To update the firmware online, click "Browse..." to select the firmware. Then click "Upgrade" to the proceed.
- b. Reboot system : re-start the IP camera
- c. Factory default : delete all the settings and restore defaults system.
- d. Setting Management : User may download the current setting to PC, or upgrade from previous saved setting.
  1. Setting download:  
Right-click the mouse button on Setting Download → Select "Save AS..." to save current IP CAM setting in PC → Select saving directory → Save
  2. Upgrade from previous setting  
Browse → search previous setting → open → upgrade → Setting update confirm → click [index.html](#). to return to main page

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## B.Network

### i、 IP Setting

IR IP CAMERA supports DHCP and static IP.

IP Setting	
<b>IP Assignment</b>	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address:	<input type="text" value="192.168.1.200"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Gateway:	<input type="text" value="192.168.1.254"/>
DNS 0:	<input type="text" value="168.95.1.1"/>
DNS 1:	<input type="text" value="168.95.192.1"/>
<b>Port Assignment</b>	
Web Page Port:	<input type="text" value="80"/>
RTSP Port :	<input type="text" value="554"/>
RTP Start Port:	<input type="text" value="5000"/> [1024..10000]
RTP End port:	<input type="text" value="9000"/> [1025..10000]
<b>UPnP</b>	
UPnP:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
<input type="button" value="Apply"/>	

- a. DHCP : Using DHCP, IR IP CAMERA will get all the network parameters automatically.
- b. Static IP : Please type in IP address, subnet mask, gateway, and DNS manually.
- c. Port Assignment: user may need to assign different port to avoid conflict when setting up IP assignment.
  1. Web Page Port: setup web page connecting port and video transmitting port (Default: 80)
  2. RTSP Port: setup port for RTSP transmitting (Default: 554)
  3. RTP Start and End Port: in RTSP mode, you may use TCP and UDP for connecting. TCP connection uses RTSP Port (554). UDP connection uses RTP Start and End Port.
- d. UPnP

This IP camera supports UPnP, If this service is enabled on your computer, the camera will automatically be detected and a new icon will be added to "My Network Places."

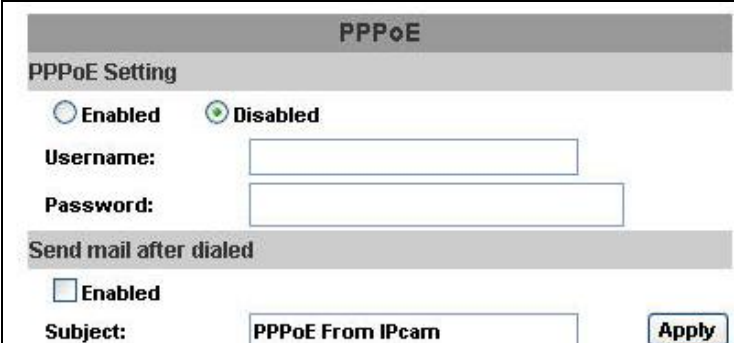
**Note:** UPnP must be enabled on your computer.

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Please follow the procedure to activate UPnP

1. open the Control Panel from the Start Menu
2. select Add/Remove Programs
3. Select Add/Remove Windows Components and open Networking Services section
4. Click Details and select UPnP to setup the service
5. The IP device icon will be added to “MY Network Places”
6. User may double click the IP device icon to access IE browser

ii 、 PPPoE :



PPPoE

PPPoE Setting

☐ Enabled ☒ Disabled

Username:

Password:

Send mail after dialed

☐ Enabled

Subject:

Select “Enabled” to use PPPoE.

Key-in Username and password for the ADSL connection.

Send mail after dialed : When connect to the internet, it will send a mail to a specific mail account. For the mail setting, please refer to “Mail and FTP” settings.

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### iii 、 DDNS :

IR IP camera supports DDNS (Dynamic DNS) and Manual Built-in DDNS services.

#### a. DynDNS :

**DDNS**

**DDNS Setting**

☐ Enabled ☒ Disabled

Provider: dyndns.org

Hostname:

Username:

Password:

Schedule Update: 1440 Minutes

**State**

Idle

**Apply**

**Note:**

1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

1. Please enable this service
2. Key-in the DynDNS server name, user name, and password.
3. Set up the IP Schedule update refreshing rate.
4. Click “Apply”
5. If setting up IP schedule update too frequently, the IP may be blocked. In general, schedule update every day (1440 minutes) is recommended.

b. Camddns service :

DDNS

DDNS Setting

☐ Enabled ☒ Disabled

Provider:

Username:

Schedule Update:  Minutes

State

Apply

Note:  
1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.  
2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

1. Please enable this service
2. Key-in user name.
3. IP Schedule update is default at 5 minutes
4. Click "Apply".

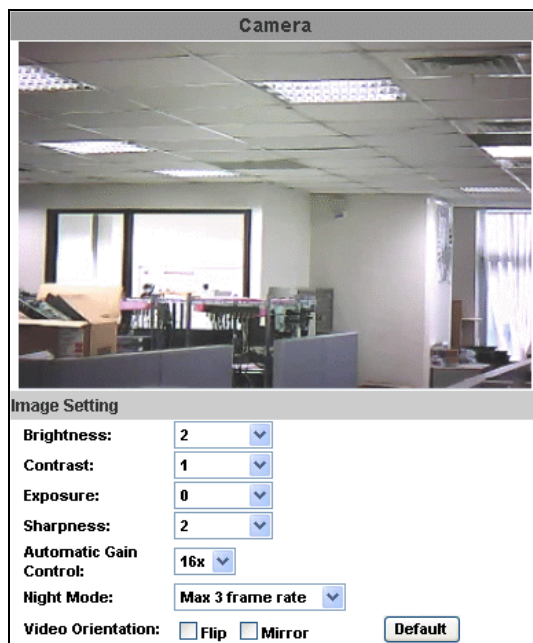
c. DDNS Status

1. Updating : Information update
2. Idle : Stop service
3. DDNS registration successful, can now log by  
<http://<username>.ddns.camddns.com> : Register successfully.
4. Update Failed, the name is already registered : The user name has already been used. Please change it.
5. Update Failed, please check your internet connection : Network connection failed.
6. Update Failed, please check the account information you provide : The server, user name, and password may be wrong.

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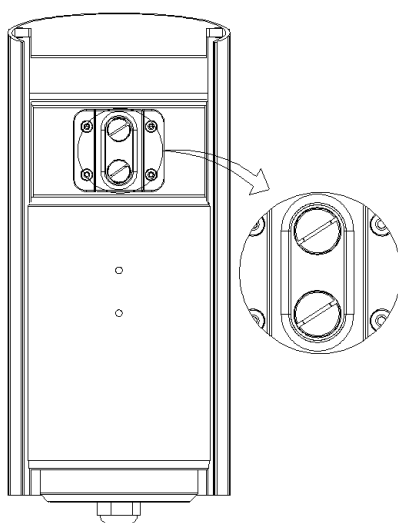
# C.A/V Setting

## i 、 Image Setting



Adjust “Brightness”, “Contrast”, “Hue”, “Saturation” to get clear video. If needed, please select “Back Light Compensation” ON to compensate back light situation

- ii 、 This IP camera belongs to external varifocal lens adjustment camera. Please adjust “**ZOOM**” first and “**FOCUS**” in the following to complete the adjustment.



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### iii 、 Video Setting

User may select 2 streaming output simultaneously:

Streaming 1 Setting: Basic mode and Advanced mode

Streaming 2 Setting: Basic mode, Advanced mode, and 3GPP mode

(Max Video Frame Rate for both streaming combined is 30 FPS)

#### a. Streaming 1 Basic Mode :

The screenshot shows a 'Video Setting' window with a 'Streaming 1 Setting' tab. Under this tab, 'Basic Mode' is selected with a radio button. The settings are as follows: Resolution is set to 'VGA - 640x480' (dropdown), Quality is set to 'Best' (dropdown), Video Frame Rate is set to '10 FPS' (dropdown), Video Format is set to 'MPEG4' (dropdown), and Video System is set to '60 Hz' (dropdown). The RTSP Path is an empty text box. To the right of the text box, the text 'ex:rtsp://</>' and 'Audio:G.711' are displayed.

##### 1. Resolution :

There are 8 resolutions can be chosen.

1600x 1200, 1280x1024, 1280x960, 1280x720, 800x600,

640x480, 320x240, 176x144There are 4 resolutions to choose.

##### 2. Quality :

There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is.

Also not good for internet transmitting

##### 3. Video Frame Rate : The video refreshing rate per second.

##### 4. Video Format : H.264/MPEG-4/JPEG.

##### 5. RTSP Path: RTSP output name



b. Streaming 1 Advanced Mode :

Streaming 1 Setting

☐ Basic Mode ☒ Advanced Mode

Resolution: VGA - 640x480

Bitrate Control Mode: ☐ CBR ☒ VBR

Video Quantitative: 9

Video Bitrate: 1.5Mbps

Video Frame Rate: 10 FPS

GOP Size: 1 X FPS GOP = 10

Video Format: MPEG4

Video System: 60 Hz

RTSP Path: ex:rtsp://</> Audio:G.711

1. Resolution : 1600x 1200, 1280x1024, 1280x960, 1280x720, 800x600, 640x480, 320x240, 176x144
2. Bitrate Control Mode  
There are CBR (Constant Bit Rate) and VBR (Variable Bit Rate) to use.  
CBR : 32Kbps~4Mbps – Increase CBR to increase the picture quality; vise versa  
VBR : 1(Low) ~10(High) – Compression rate, the higher the compression rate, the lower the picture quality is; vise versa.  
The balance between VBR and network bandwidth will affect picture quality. Please carefully select the VBR rate to avoid picture breaking up or lagging.
3. Video Frame Rate  
Picture display frame per second  
1600 x 1200, Max. 15FPS  
1280 x 720 or below this resolution, Max 30 frames/second
4. GOP Size  
It means "Group of Pictures". The higher the GOP is, the better the quality is.

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5. Video Format :

There are 2 Video Format to choose  
MPEG4 or JPEG.

6. RTSP Path: RTSP output connecting route

c. Streaming 2 Basic Mode :

Streaming 2 Setting

☒ Basic Mode ☐ Advanced Mode ☐ 3GPP Mode ☐ Close

Resolution: VGA - 640x480

Quality: Low

Video Frame Rate: 20 FPS

Video Format: MPEG4

RTSP Path: v2 ex:rtsp://</>v2 Audio:G.711

Apply

1. Resolution :

There are 3 resolutions to choose.

1600x 1200, 1280x1024, 1280x960, 1280x720, 800x600,  
640x480, 320x240, 176x144

2. Quality :

There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is. Also not  
good for internet transmitting

3. Video Frame Rate :

Picture display frame per second.

1600 x 1200, Max. 15FPS

1280 x 720 or below this resolution, Max 30 frames/second

4. Video Format : H.264/JPEG

5. RTSP Path: RTSP output connecting route

d. Streaming 2 Advanced Mode :

The screenshot shows the 'Streaming 2 Setting' dialog box with the 'Advanced Mode' tab selected. The settings are as follows:

- Resolution:** VGA - 640x480
- Bitrate Control Mode:** CBR
- Video Quantitative:** 7
- Video Bitrate:** 128Kbps
- Video Frame Rate:** 20 FPS
- GOP Size:** 1 X FPS (GOP = 20)
- Video Format:** MPEG4
- RTSP Path:** v2
- Audio:** G.711

An 'Apply' button is located at the bottom right of the dialog box.

1. Resolution :

There are 3 resolutions to choose.

1600x 1200, 1280x1024, 1280x960, 1280x720, 800x600,  
640x480, 320x240, 176x144

2. Quality :

There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is. Also not  
good for internet transmitting

3. Video Frame Rate :

Picture display frame per second.

1600 x 1200, Max. 15FPS

1280 x 720 or below this resolution, Max 30 frames/second

4. Video Format : H.264/JPEG

5. RTSP Path: RTSP output connecting route

6. RTSP Path: RTSP output name

e. Streaming 2, 3GPP mode:

Streaming 2 Setting

☐ Basic Mode ☐ Advanced Mode ☒ 3GPP Mode ☐ Close

Resolution: QQVGA - 160x120

Bitrate Control Mode: ☒ CBR ☐ VBR

Video Quantitative: 7

Video Bitrate: 128Kbps

Video Frame Rate: 5 FPS

GOP Size: 1 X FPS GOP = 5

Video Format: MPEG4

3GPP Path: 3g ex:rtsp://</>/3g Audio:AMR

ex:rtsp://</>/3gx No Audio

Apply

3GPP default value is QQVGA , 128Kbp , 5FPS , GOP=1XFPS

3GPP mode suggested setting: QQVGA, lower than 128kbps, 5FPS, GOP= 1x FPS or 2x FPS, MPEG4 format

3GPP can achieve up to 10FPS, In 3GPP mode, Stream 1 & Stream 2 combined frame rate is 20FPS

1. Fix Resolution :  
QQVGA – 160x120
2. Bitrate Control Mode  
There are CBR (Constant Bit Rate) and VBR (Variable Bit Rate) to use.  
CBR : 32Kbps~320bps (the higher the CBR is, the better the video quality is)  
VBR : 1~10 (Compression Rate)
3. Video Frame Rate ( 5 FPS is recommended )  
The video refreshing rate per second.
4. GOP Size  
It means "Group of Pictures". The higher the GOP is, the better the quality is.
5. Video Format : MPEG4 or JPEG
6. 3GPP: 3GPP output name

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## D.Event List

IR IP CAMERA provides multiple event settings.

### i、Event Setting

The screenshot shows the 'Event Setting' web interface. At the top, there's a 'Motion Detection' section with a live camera feed and three colored boxes representing detection areas: Area 1 (blue), Area 2 (green), and Area 3 (red). Below this, the 'Area Setting' section allows configuring each area with checkboxes for 'E-mail', 'FTP', and 'Save to SD card'. A 'Sensitivity' dropdown is set to '5' for each area. The 'Subject' field is 'IP Camera Warning!' and the 'Interval' is '10 sec'. There's a checkbox for 'Based on the schedule'. The 'Record File' section has a 'File Format' dropdown set to 'AVI File(with Record Time Setting)'. The 'Record Time Setting' section has 'Pre Alarm' and 'Post Alarm' dropdowns set to '5 sec'. The 'Network Dis-connected' section has a 'Dis-connected' checkbox and a 'Save to SD card' option. The 'Network IP Check' section has 'IP Check' radio buttons (Enabled/Disabled), an 'IP Address' field set to 'www.google.com', an 'Interval' dropdown set to '30 sec', and a 'Save to SD card' checkbox. An 'Apply' button is at the bottom right.

#### a. Motion Detection

IP CAMERA allows 3 areas motion detection. When motion is triggered, it can send video to some specific mail addresses, transmit video to remote ftp server. To set up the motion area, click “Area Setting”. Using mouse to drag and set the area. The same operation for area 2 and 3.

#### b. Record File Setting: IP CAMERA allows 3 different types of recording file to change its record size.

When motion/alarm is triggered, there are 3 different types of record mode.

1. AVI File (With Record File Setting )
2. Multi-JPEG (With Record File Setting), only with JPEG compression format.
3. Single JPEG (Single File with Interval Setting)

#### c. Record Time Setting : Pre Alarm and Post Alarm setups for video start and end time when motion detected, I/O, or other devices got

triggered.

Note: Pre/Post Alarm record time is base on record time setting and IP Cam built-in Ram memory. Limited by IP Cam built-in Ram Memory, When information is too much or video quality set too high, it will cause recording frame drop or decrease on post alarm recording time.

## ii 、 Schedule

Schedule																								
All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon.																								
Tue.																								
Wed.																								
Thu.																								
Fri.																								
Sat.																								
Sun.																								

☒ With schedule setup.

Snapshot

☐ Enabled ☒ Disabled

Snapshot: ☐ E-mail ☐ FTP

Interval:  Second(s) [1..50000]

File Name:

- Schedule : Use the mouse to perform the schedule setting. The set up date will be shown in green.
- Snapshot: the snapshot file can be send by E-mail and FTP. Moreover, the snapshot interval cab be set from 1 ~50000 sec.

## iii 、 Mail & FTP

To send out the video via mail of ftp, please set up the configuration first.

Mail & FTP	
<b>Mail Setting</b>	
Mail Server:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="text"/>
Sender's Mail:	<input type="text"/>
Receiver's Mail:	<input type="text"/>
Bcc Mail:	<input type="text"/>
<b>FTP Setting</b>	
FTP Server:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="text"/>
Port:	<input type="text" value="21"/>
Path:	<input type="text" value="/"/>
<input type="button" value="Apply"/>	

## iv 、 Log List

Log List	
System Logs	<a href="#">Logs</a>
Motion Detection Logs	<a href="#">Logs</a>
I/O Logs	<a href="#">Logs</a>
All Logs	<a href="#">Logs</a>

Sort by System Logs, Motion Detection Logs and I/O Logs. In addition, System Logs and I/O Logs won't lose data due to power failure.

v、SD card

The SD card manual install is only provide for the indoor type camera, Please Insert Micro SD card before use it. Make sure pushing SD card into the slot completely.

If you are using the outdoor water proof type camera, The SD card is not support install from user.

**Note :** The use of the SD card will affect the operation of the IP Camera slightly, such as affecting the frame rate of the video.



a. Playback:

Playback	
19700101	20060417
SD Card: << 878M / 982M >>	

1. It will show the capacity of the SD card. Click the date listed on this page. It will show the list of the video.

2006/04/17			Del
Time	Video	Event Type	
09:05:22	090522f.avi	Network Dis-connected	<input type="checkbox"/>
09:05:52	090552f.avi	Network Dis-connected	<input type="checkbox"/>
09:06:22	090622f.avi	Network Dis-connected	<input type="checkbox"/>
09:06:52	090652f.avi	Network Dis-connected	<input type="checkbox"/>
09:07:22	090722f.avi	Network Dis-connected	<input type="checkbox"/>
09:07:52	090752f.avi	Network Dis-connected	<input type="checkbox"/>
09:08:22	090822f.avi	Network Dis-connected	<input type="checkbox"/>
09:08:51	090851f.avi	Network Dis-connected	<input type="checkbox"/>
09:09:21	090921f.avi	Network Dis-connected	<input type="checkbox"/>
09:09:51	090951f.avi	Network Dis-connected	<input type="checkbox"/>

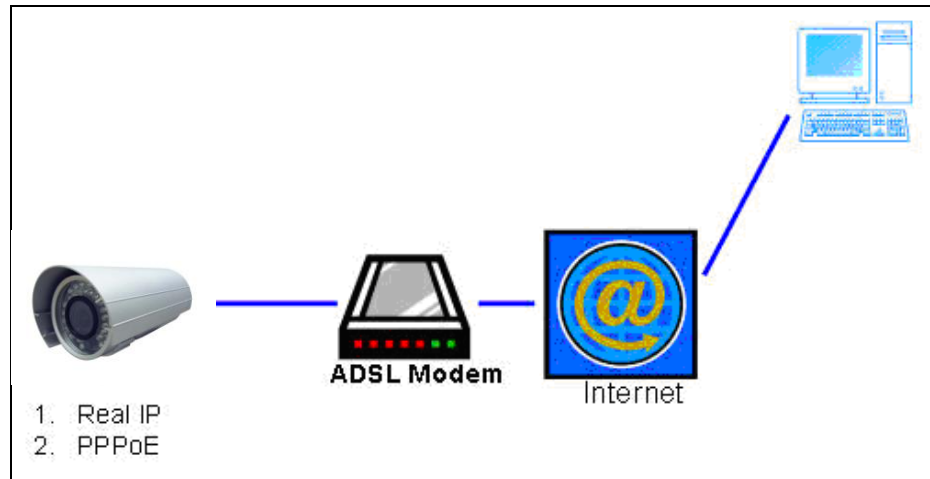
2. The video format is AVI. Click the video to start Microsoft Media Player to play it.

To delete the video, check it, then click ☐ Del. When the SD card is full, it will remove the oldest video automatically.

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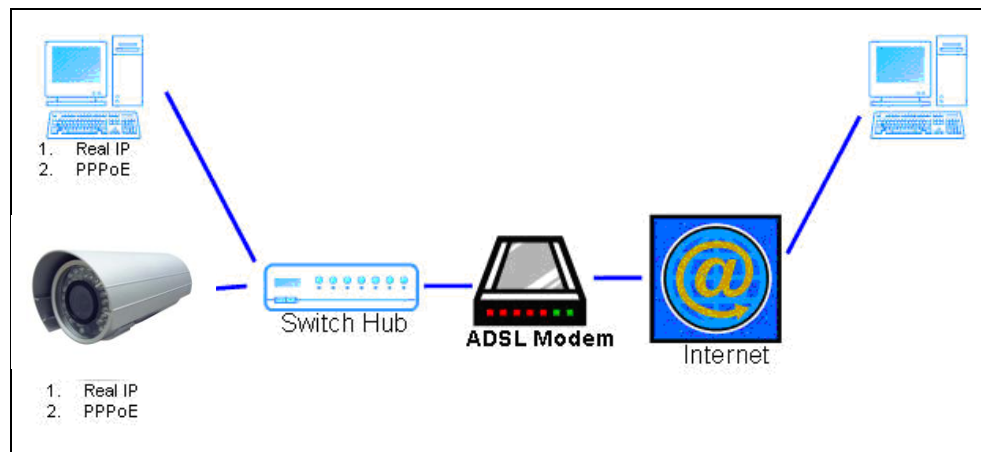
## VI. Network Configuration

### i 、 Configuration 1 :



- a. Internet Access : ADSL or Cable Modem
- b. IP address : One real IP or one dynamic IP
- c. Only IR IP CAMERA connects to the internet
- d. For fixed real IP, set up the IP into IR IP CAMERA. For dynamic IP, start PPPoE.

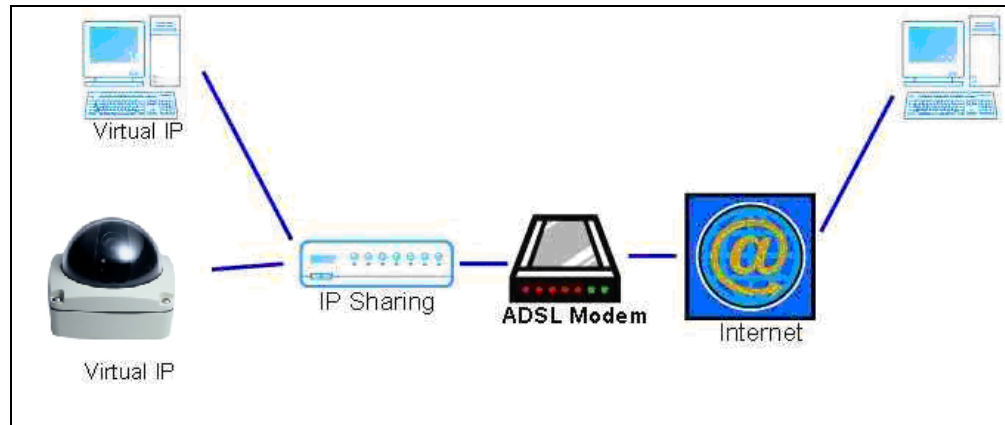
### ii 、 Configuration 2 :



- a. Internet Access : ADSL or Cable Modem
- b. IP address : More than one real IP or one dynamic IP
- c. IR IP CAMERA and PC connect to the internet
- d. Device needed : Switch Hub
- e. For fixed real IP, set up the IP into IR IP CAMERA and PC. For dynamic IP, start PPPoE.

### iii 、 Configuration 3 :





- a. Internet Access : ADSL or Cable Modem
- b. IP address : one real IP or one dynamic IP
- c. IR IP CAMERA and PC connect to the internet
- d. Device needed : IP sharing
- e. Use virtual IP, set up port forwarding in IP sharing.

## VII. Package contents

- i 、 IR IP CAMERA Network Camera
- ii 、 Adaptor
- iii 、 Ethernet Cable
- iv 、 CD title (User manual, IP installation Utility)